BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division,Yelahanka Zone

Executive Engineer
Yelahanka Division
B.B.M.P. Bengaluru-64
No:EE/YNK-D/E-PMT/08/2021-22 Dated: 30-08-2021

MODIFIED SCHEDULE-'B'

NAME OF WORK:- Restoration Improvements of Mahalakshmi layout, Balaji layout, Best Country-II & III, Bhaskar Reddy, Andhra layout, Tirumalanagara and surrounding areas in ward no-03 of Yelhanka New town Sub division (PAKAGE NO-10)

Sl No	Description	Unit	Modified Quantity	Rate quoted by the contractor approved rates Sri B B UMESHA	
				Rate	Rate in Words
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum	10479.60	217.43	Rupees Two Hundred Seventeen and Forty Three Paise Only
2	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. and as per the directions of the Engineer-in-charge of the work Qty Upto 125%	Cum	302.81	2600.49	Rupees Two Thousand Six Hundred and Forty Nine Paise Only
	Qty Above 125%	Cum	87.43	2600.49	Rupees Two Thousand Six Hundred and Forty Eight Paise Only
3	Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum	1348.94	5675.99	Rupees Five Thousand Six Hundred Seventy Five and Ninety Nine Paise Only

Sl No	Description	Unit	Modified Quantity	Rate quoted by the contractor approved rates Sri B B UMESHA	
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4	Providing TMT Bars Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in postion, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. and as per the directions of the Engineer-in-charge of the work	Tonne	189.74	80948.07	Rupees Eighty Thousand Nine Hundred Forty Eight and Seven Paise Only
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification and as per the directions of the Engineer-in-charge of the work	Cum	2621.78	7497.22	Rupees Seven Thousand Four Hundred Ninety Seven and Twenty Two Paise Only
6	Providing and Placing Reinforced / Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. B. RCC with OPC cement design mix M25 @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed- 2008, including cost of materials, labour, HOM, Curing, form works, scaffolding and centering complete as per specification and as per the directions of the Engineer-in-charge of the work	Cum	0.00	0.00	0
7	Providing and Fixing Pre cast covering Slab 100mm thick made out of CC, jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete. and as per the directions of the Engineer-in-charge of the work	Sqm	4644.20	1941.22	Rupees One Thousand Nine Hundred Forty One and Twenty Two Paise Only
8	Removing and refixing stone slabs of drains and pointing in CM (1:3) and as per the directions of the Engineer-in-charge of the work Qty Upto 125%	Sqm	1286.33	112.41	Rupees One Hundred Twelve and Forty One Paise Only

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	Qty Above 125%	Sqm	291.53	112.41	Rupees One Hundred Twelve and Forty One Paise Only
9	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. and as per the directions of the Engineer-in-charge of the work	Sqm	881.87	960.33	Rupees Nine Hundred Sixty and Thirty Three Paise Only
10	Providing and Fixing pre cast covering Slab 150mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.and as per the directions of the Engineer-in-charge of the work Qty Upto 125%	Sqm	956.25	2517.93	Rupees Two Thousand Five Hundred Seventeen and Ninety Three Paise Only
	Qty Above 125%	Sqm	196.95	2517.93	Rupees Two Thousand Five Hundred Seventeen and Ninety Three Paise Only
11	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and as per the directions of the Engineer-in-charge of the work	Sqm	395.06	4530.86	Rupees Four Thousand Five Hundred Thirty and Eighty Six Paise Only
12	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum	248.47	6089.85	Rupees Six Thousand Eighty Nine and Eighty Five Paise Only

Sl No	Description	Unit	Modified Quantity	Rate quoted by the contractor approved rates Sri B B UMESHA	
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13	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. and as per the directions of the Engineer-in-charge of the work	Sqm	787.71	1318.98	Rupees One Thousand Three Hundred Eighteen and Ninety Eight Paise Only
14	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.and as per the directions of the Engineer-in-charge of the work	Nos	25107.00	436.80	Rupees Four Hundred Thirty Six and Eighty Paise Only
15	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Sqm	3389.18	85.65	Rupees Eighty Five and Sixty Five Paise Only
16	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum	23820.72	64.58	Rupees Sixty Four and Fifty Eight Paise Only
17	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Sqm	63696.03	6.42	Rupees Six and Forty Two Paise Only

Sl No	Description	Unit	Modified Quantity	Rate quoted by the contractor approved rates Sri B B UMESHA	
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18	Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. and as per the directions of the Engineer-in-charge of the work Qty upto 125%	Cum	2987.63	347.95	Rupees Three Hundred Forty Seven and Ninety Five Paise Only
	Qty Above 125%	Cum	653.76	347.95	Rupees Three Hundred Forty Seven and Ninety Four Paise Only
19	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum	9779.07	2014.87	Rupees Two Thousand Fourteen and Eighty Seven Paise Only
20	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum	12739.21	2021.29	Rupees Two Thousand Twenty One and Twenty Nine Paise Only
21	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specification. and as per the directions of the Engineer-in-charge of the work	Sqm	63832.56	34.26	Rupees Thirty Four and Twenty Six Paise Only

Sl No	Description	Unit	Modified Quantity	Rate quoted by the contractor approved rates Sri B B UMESHA	
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22	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specification sand as per the directions of the Engineer-in-charge of the work	Cum	3191.63	7365.73	Rupees Seven Thousand Three Hundred Sixty Five and Seventy Three Paise Only
23	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Sqm	63832.56	12.85	Rupees Twelve and Eighty Five Paise Only
24	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum	2553.30	8534.82	Rupees Eight Thousand Five Hundred Thirty Four and Eighty Two Paise Only
25	Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. and as per the directions of the Engineer-in-charge of the work	Cum	181.23	4101.90	Rupees Four Thousand One Hundred One and Ninety Paise Only

Sl No	Description	Unit	Modified Quantity	Rate quoted by the contractor approved rates Sri B B UMESHA	
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	Qty Above 125%	Cum	180.74	4756.12	Rupees Four Thousand Seven Hundred Fifty Six and Eleven Paise
26	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. and as per the directions of	Cum	181.23	5690.65	Rupees Five Thousand Six Hundred Ninety and Sixty Five Paise Only
	Qty Above 125%	Cum	180.74	6062.35	Rupees Six Thousand Sixty Two and Thirty Four Paise Only
27	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Sqm	1870.53	459.29	Rupees Four Hundred Fifty Nine and Twenty Nine Paise Only

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28	Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. and as per the directions of the Engineer-in-charge of the work	Nos	1146.00	360.79	Rupees Three Hundred Sixty and Seventy Nine Paise Only
E1	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.	Sqm	280.62	989.23	Rupees Nine Hundred Eighty Nine and Twenty Three Paise Only

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